



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of)
Takeshi FUKUDA et al.) Group Art Unit: 1617
Application No.: 09/834,651) Examiner: L. Q. Wells
Filed: April 16, 2001)
For: FLAKY α -ALUMINA PARTICLES) Confirmation No.: 3687
AND METHOD FOR PRODUCING)
THE SAME)

APPENDIX A

Abstract of Japanese Publication No. 5-17132

PATENT ABSTRACTS OF JAPAN

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(71)Applicant : AGENCY OF IND SCIENCE & TECHNOL

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(54) PRODUCTION OF FINE PLATE PARTICLE OF ALUMINA

(57)Abstract:

PURPOSE: To efficiently obtain fine plate particles of alumina having uniform particle diameter of submicron order by adjusting the particle diameter of aluminum hydroxide, etc., and subjecting the aluminum hydroxide to hydrothermal treatment under specific condition in water or an aqueous solution of an alkali.

CONSTITUTION: The starting raw material consisting of aluminum hydroxide or hydrated alumina is crushed and adjusted to the particle size of submicron order. The starting raw material having adjusted particle size is filled in an autoclave together with water or an aqueous solution of an alkali (sodium hydroxide or sodium carbonate) and subjected to hydrothermal treatment at $\geq 350^{\circ}\text{C}$ under a pressure of $\leq 200\text{atm}$. The fine plate particles of alumina produced by this process can be used as a pigment for paint or in the field of the forming of ceramics.